

**ABSTRACT OF THE DISCLOSURE**

5 Provided is a process for the preparation of polysulfides which comprises reaching sodium sulfide with oxygen in the presence of a transition metal oxide, preferably  $\text{MnO}_2$ , and with the consumption rate of  $\text{O}_2$  being at least  $1.5 \times 10^{-4}$  moles/l/sec. The process of the present invention is preferably conducted in a self-recirculated reactor, which has been found to allow easy control of the  $\text{O}_2$  consumption rate.